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IN THE CLAIMS

Attached are replacement pages for pages 9 and 10, putting the claims on a separate page,
as required.

cam mechanism 16 with respect thereto be lessened, and that the angular movement of the reflecting mirror 12 be made stably.

In this mode of embodiment, the driving means 14 is made of the stepping motor 15 and cam mechanism 16, and the reflecting mirror 12 is angularly moved at the first speed or second speed by the first and second moving portions 16c, 16d formed on the outer circumferential surface of the cam mechanism 16. The driving means may also be formed by providing a speed controllable motor (first motor), and a control means including, for example, a microcomputer for operating this motor at a first speed employed at a normal time or at a second speed higher than the first speed and a driver, and adapted to angularly move the reflecting member at the first speed or the second speed by controlling the speed of the motor by the control means. This enables the time required to move the reflecting member to a predetermined angular position to be reduced to a comparatively low level.

The display in this mode of embodiment is the display 11, which may also be made of, for example, a fluorescent display tube and an organic EL display panel. The memory portion in this embodiment is the EEPROM 36, which may also be made of, for example, a flash memory.

In this mode of embodiment, only one data on the angular position of the reflecting mirror 12 is stored. The data on the angular position of the reflecting mirror may also be stored plurally so that the positions of the memory of not smaller than two drivers can be stored. Although this mode of embodiment is a head-up display unit, this display unit can be applied to, for example, a virtual image display type combination meter.

Industrial Applicability

The present invention can be applied to a display unit for vehicles, and preferably to a display unit for vehicles, used to regulate the angular position of, especially, a member for reflecting the display light emitted by a display.

Claims

1. A display unit for vehicles, characterized in that the display unit is provided with a display adapted to emit display light, a member adapted to reflect the display light, and a driving means for angularly moving the reflecting member at a first speed employed at a normal time, or at a second speed higher than the first speed.
2. A display unit for vehicles according to Claim 1, wherein the driving means angularly moves the reflecting member to an angular position, in which the sunlight is not reflected toward the display, when an ignition switch is turned off, and at the second speed to an original position, in which the display light can be visually recognized, when the ignition switch is turned on.
3. A display unit for vehicles according to Claim 2, wherein the display unit is provided with a memory portion for storing the angular position of the reflecting member, the driving means angularly moving the reflecting member to the angular position, which is stored as the original position in the memory portion, when the ignition switch is turned on.
4. A display unit for vehicles according to any of Claims 1 to 3, wherein the driving means is provided with a first speed controllable motor, and a control means for operating the first motor at the first speed or at the second speed.
5. A display unit for vehicles according to any of Claims 1 to 3, wherein the driving means is provided with a second motor operated at a substantially constant speed, and a cam mechanism connected to the second motor and having on an outer circumferential surface thereof a first moving portion for angularly moving the reflecting member at the first speed and a second moving portion for angularly moving the reflecting member at the second speed.
6. A display unit for vehicles according to Claim 5, wherein the reflecting member is provided with a projecting portion connected thereto, the reflecting member being angularly moved with the projecting portion engaged with the cam mechanism.
7. A display unit for vehicles according to Claim 6, wherein the projecting portion is provided with a rolling member turned along the outer circumferential surface of the cam mechanism and thereby angularly moving the reflecting member.